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The Trusted Integrator for Sustainable Solutions

2 June 2015

Mr. James Curtis
Chief, Geologic and Waste Assessment Unit
Illinois Department of Transportation
Bureau of Design and Environment
2300 South Dirksen Parkway
Springfield, IL 62764

Work Order No.: 02056-014-023

Re: Radiological Monitoring Results Letter Report
FAI 55: I-55 From MLK Jr. Drive to Metra Railroad
Chicago, Cook County, Illinois
IDOT Job No. P-91-351-07
ISGS PESA No. 2045
Contract No. 60X07
Sequence No. 15494
Weston Work Order No. 023
Agreement No. PTB 173-011
Anticipated Letting Date: July 31, 2015
**City of Chicago, Department of Transportation Permit No. 560384148 for
2400-2499 S. Dr. Martin Luther King Jr. Dr.**

Dear Mr. Curtis:

Based on conditions specified on the above-referenced permit issued by the City of Chicago, radiation monitoring was required along the north side of 25th Street between Martin Luther King Jr. Drive and the Metra Railroad, in Chicago, Illinois. Soil borings US-1 through US-4 and RR-1, shown on Figure 1, were advanced within the radiation monitoring area as part of the Preliminary Site Investigation conducted on the above-referenced project.

WESTON Solutions (WESTON) conducted radiological gamma monitoring of these five soil borings located within the radiation monitoring area within the Illinois Department of Transportation (IDOT) easement for Northbound Interstate 55. The gamma monitoring was conducted on 27 April 2015 using a Ludlum Model 2221 survey meter and an unshielded 2 x2 inch NaI probe (Model 44-10). Background levels were established for each of the boreholes prior to boring advancement by screening the asphalt and/or gravel covering the boring locations. Background levels at the radiation monitoring area were between 3,266 and 3,953 counts per minute (cpm).



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-2-

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The soil borings were advanced to a maximum depth of 15 feet (ft) below ground surface (bgs) using a Geoprobe[®]. Each soil core was screened for potential radiation at 12-inch intervals; the highest reading within each 12-inch interval was recorded. The maximum reading for each boring is as follows:

- The maximum reading for boring US-1 was 3,898 cpm across the 11 to 12 ft bgs depth interval.
- The maximum reading for boring US-2 was 4,126 cpm across the 5 to 6 ft bgs depth interval.
- The maximum reading for boring US-3 was 3,872 cpm across the 12 to 13 ft bgs depth interval.
- The maximum reading for boring US-4 was 4,022 cpm across the 14 to 15 ft bgs depth interval.
- The maximum reading for boring RR-1 was 3,964 cpm across the 7 to 8 ft bgs depth interval.

All values were at or slightly above background levels established for this area. Figure 1 shows boring locations and gamma radiation monitoring results.

If you have any questions or require additional information, please call me at (224) 864-7250.

Very truly yours,

Weston Solutions, Inc.

A handwritten signature in blue ink, appearing to read "S. Babusukumar".

S. Babusukumar, P.G.
Program Manager

cc: Kevin M. LaBerge, P.E. (City of Chicago)
Verneta Simon, OSC (US EPA)

Attachment: Figure 1

SB\kms

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